

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: AMETRIX

Report Number: P508428

Luminaire Tested: **ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: AMETRIX
Catalog Number: ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(2) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

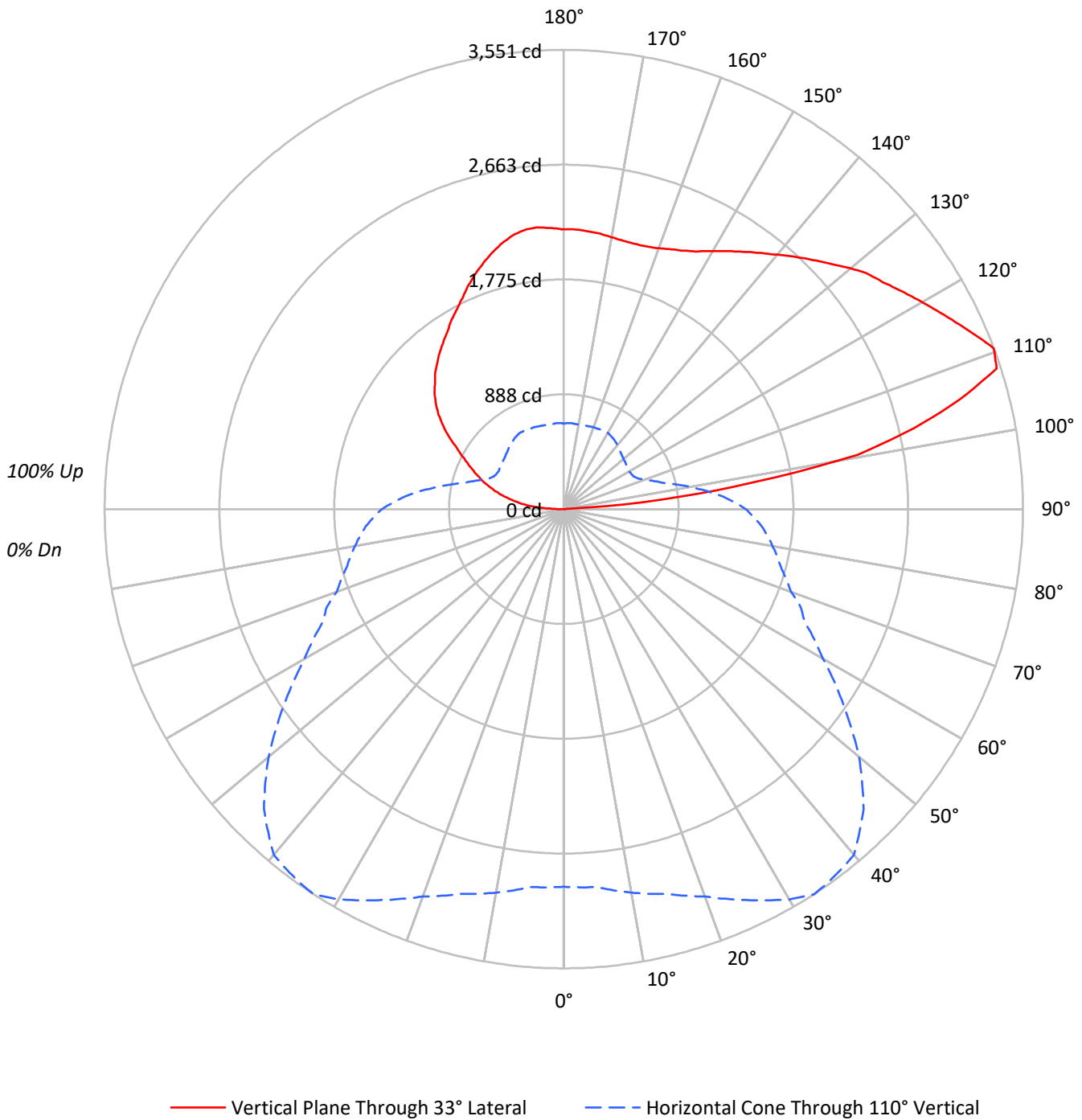
Lumens per Lamp: N/A
Luminaire Lumens: 10274.1 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 107.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P508428
CATALOG NUMBER: ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508428

CATALOG NUMBER: ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									50									30									10									0									
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0																												
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0																												
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0																												
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0																												
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0																												
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0																												
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0																												
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0																												
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0																												
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0																												
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
95°	74892	28751	62714
100°	190139	61193	51573
105°	184761	67748	43992
110°	183756	88548	41725
115°	160204	100396	38255
120°	133137	98675	36890
125°	113409	91974	37581
130°	96947	84311	39677
135°	83407	77504	40148
140°	72729	71541	40029
145°	63936	65975	40307
150°	56093	61616	40318
155°	51507	57787	40870
160°	47656	53876	42245
165°	46048	51000	44320
170°	45860	48710	46168
175°	46935	47164	46555



TEST NUMBER: P508428

CATALOG NUMBER: ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	372.9	3.6
100°-110°	1375.5	13.4
110°-120°	1866.4	18.2
120°-130°	1858.1	18.1
130°-140°	1654.1	16.1
140°-150°	1344.2	13.1
150°-160°	987.0	9.6
160°-170°	609.1	5.9
170°-180°	206.9	2.0
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	3614.8	35.2
90°-150°	8471.2	82.5
90°-180°	10274.0	100.0
0°-180°	10274.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	303	448	116	176	254	502
105°	2221	2983	814	480	529	2364
115°	3145	3237	1971	765	751	3075
125°	3022	3022	2450	1086	1001	2701
135°	2740	2750	2546	1372	1319	2134
145°	2433	2440	2510	1625	1534	1530
155°	2168	2242	2433	1908	1721	1001
165°	2066	2140	2288	2119	1989	590
175°	2172	2151	2182	2182	2154	204
180°	2165	2165	2165	2165	2165	



TEST NUMBER: P508428

CATALOG NUMBER: ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	33°	35°	40°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	17.6	17.6	17.6	21.2	24.7	24.7	31.7	35.3	31.7	45.8	52.9
95°	303.2	349.1	500.7	595.9	588.8	557.1	592.3	694.6	747.5	680.5	578.2
97.5°	761.6	789.8	1103.6	1251.7	1382.1	1445.6	1502.0	1456.2	1480.9	1466.7	1336.3
100°	1533.7	1625.4	1734.7	1886.3	2073.2	2207.2	2309.4	2390.5	2312.9	2189.5	1829.9
102.5°	1963.9	1995.6	2069.7	2147.2	2348.2	2446.9	2549.2	2725.5	2778.4	2753.7	2559.8
105°	2221.3	2238.9	2309.4	2425.8	2580.9	2690.2	2817.1	3046.3	3180.3	3194.4	3208.5
107.5°	2545.7	2584.4	2669.1	2743.1	2926.4	3053.4	3166.2	3402.4	3518.8	3525.8	3476.5
110°	2919.4	2933.5	3011.1	3081.6	3187.4	3261.4	3335.4	3483.5	3550.5	3539.9	3490.6
112.5°	3120.4	3138.0	3166.2	3190.9	3240.2	3272.0	3317.8	3413.0	3451.8	3462.4	3413.0
115°	3145.0	3145.0	3166.2	3169.7	3226.1	3226.1	3247.3	3339.0	3356.6	3370.7	3342.5
117.5°	3123.9	3130.9	3145.0	3138.0	3162.7	3197.9	3190.9	3247.3	3268.5	3257.9	3268.5
120°	3092.2	3085.1	3113.3	3099.2	3116.8	3138.0	3123.9	3166.2	3183.8	3176.8	3212.0
122.5°	3060.4	3060.4	3071.0	3067.5	3060.4	3053.4	3056.9	3085.1	3102.7	3099.2	3120.4
125°	3021.6	3018.1	3014.6	3000.5	3018.1	3007.5	2989.9	3011.1	3025.2	3018.1	3039.3
127.5°	2958.2	2961.7	2954.7	2947.6	2926.4	2922.9	2940.5	2930.0	2965.2	2944.1	2965.2
130°	2894.7	2894.7	2887.7	2873.6	2866.5	2852.4	2848.9	2855.9	2877.1	2884.1	2852.4
132.5°	2845.4	2820.7	2803.0	2792.5	2792.5	2778.4	2771.3	2778.4	2788.9	2806.6	2810.1
135°	2739.6	2725.5	2725.5	2711.4	2732.5	2700.8	2693.7	2704.3	2707.8	2707.8	2729.0
137.5°	2679.6	2644.4	2630.3	2626.7	2623.2	2612.6	2612.6	2626.7	2630.3	2626.7	2644.4
140°	2588.0	2549.2	2563.3	2545.7	2549.2	2531.6	2538.6	2538.6	2552.7	2552.7	2570.3
142.5°	2535.1	2478.7	2471.6	2461.0	2464.6	2457.5	2492.8	2468.1	2482.2	2506.9	2496.3
145°	2432.8	2387.0	2397.6	2387.0	2390.5	2383.5	2401.1	2397.6	2415.2	2411.7	2429.3
147.5°	2323.5	2320.0	2323.5	2316.5	2323.5	2316.5	2337.6	2334.1	2351.7	2362.3	2365.8
150°	2256.5	2242.4	2246.0	2253.0	2246.0	2260.1	2260.1	2274.2	2291.8	2295.3	2309.4
152.5°	2186.0	2182.5	2200.1	2189.5	2196.6	2196.6	2207.2	2210.7	2235.4	2238.9	2274.2
155°	2168.4	2136.7	2136.7	2133.1	2150.8	2150.8	2164.9	2186.0	2196.6	2214.2	2217.8
157.5°	2104.9	2101.4	2101.4	2115.5	2097.9	2119.0	2150.8	2140.2	2168.4	2171.9	2186.0
160°	2080.2	2069.7	2076.7	2083.8	2083.8	2101.4	2126.1	2122.6	2140.2	2161.3	2164.9
162.5°	2094.3	2059.1	2062.6	2080.2	2073.2	2097.9	2101.4	2108.5	2126.1	2133.1	2154.3
165°	2066.1	2055.6	2048.5	2055.6	2076.7	2087.3	2097.9	2104.9	2122.6	2126.1	2136.7
167.5°	2076.7	2073.2	2073.2	2080.2	2094.3	2094.3	2112.0	2108.5	2126.1	2126.1	2133.1
170°	2097.9	2087.3	2094.3	2108.5	2083.8	2122.6	2119.0	2108.5	2136.7	2136.7	2147.2
172.5°	2126.1	2115.5	2119.0	2119.0	2119.0	2140.2	2143.7	2147.2	2150.8	2147.2	2147.2
175°	2171.9	2143.7	2140.2	2140.2	2147.2	2147.2	2154.3	2136.7	2157.8	2157.8	2154.3
177.5°	2161.3	2150.8	2168.4	2150.8	2143.7	2157.8	2168.4	2154.3	2164.9	2154.3	2164.9
180°	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9



TEST NUMBER: P508428

CATALOG NUMBER: ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	45.8	45.8	45.8	42.3	38.8	38.8	38.8	38.8	35.3	31.7	31.7
95°	447.8	356.1	324.4	268.0	225.7	208.0	179.8	179.8	134.0	109.3	116.4
97.5°	1124.7	874.4	694.6	525.3	500.7	468.9	465.4	394.9	349.1	317.3	275.0
100°	1459.7	1198.8	1040.1	952.0	835.6	782.7	744.0	669.9	624.1	560.6	493.6
102.5°	2168.4	1801.7	1491.4	1230.5	1054.2	980.2	930.8	853.3	796.8	733.4	648.8
105°	2982.9	2468.1	1949.8	1558.4	1322.2	1227.0	1142.4	1064.8	990.8	892.0	814.5
107.5°	3201.5	2827.7	2436.4	1999.1	1671.2	1576.0	1477.3	1346.9	1248.1	1163.5	1029.5
110°	3279.0	2979.3	2640.9	2316.5	2052.0	1985.0	1868.7	1738.2	1639.5	1537.3	1406.8
112.5°	3247.3	3060.4	2788.9	2499.8	2284.7	2217.8	2133.1	2052.0	1999.1	1921.6	1748.8
115°	3236.7	3085.1	2894.7	2637.3	2443.4	2369.4	2302.4	2228.3	2214.2	2161.3	1970.9
117.5°	3190.9	3088.6	2944.1	2736.0	2563.3	2513.9	2446.9	2387.0	2379.9	2327.1	2161.3
120°	3159.2	3074.5	2951.1	2813.6	2665.5	2612.6	2556.2	2510.4	2489.2	2450.5	2291.8
122.5°	3085.1	3053.4	2958.2	2841.8	2707.8	2683.2	2630.3	2552.7	2588.0	2545.7	2394.0
125°	3021.6	3004.0	2979.3	2838.3	2743.1	2711.4	2672.6	2626.7	2637.3	2609.1	2450.5
127.5°	2954.7	2951.1	2933.5	2848.9	2760.7	2746.6	2700.8	2665.5	2658.5	2630.3	2489.2
130°	2901.8	2898.2	2873.6	2817.1	2760.7	2757.2	2711.4	2683.2	2679.6	2655.0	2517.4
132.5°	2824.2	2824.2	2838.3	2781.9	2746.6	2736.0	2714.9	2679.6	2690.2	2637.3	2531.6
135°	2750.2	2753.7	2764.3	2736.0	2757.2	2718.4	2697.3	2651.4	2672.6	2651.4	2545.7
137.5°	2665.5	2676.1	2697.3	2686.7	2697.3	2700.8	2672.6	2662.0	2662.0	2640.9	2542.1
140°	2563.3	2605.6	2644.4	2640.9	2662.0	2658.5	2647.9	2598.5	2644.4	2630.3	2545.7
142.5°	2517.4	2542.1	2588.0	2577.4	2623.2	2623.2	2616.2	2612.6	2623.2	2598.5	2531.6
145°	2439.9	2478.7	2513.9	2535.1	2563.3	2591.5	2580.9	2588.0	2591.5	2591.5	2510.4
147.5°	2390.5	2432.8	2478.7	2485.7	2535.1	2542.1	2545.7	2556.2	2577.4	2549.2	2517.4
150°	2337.6	2365.8	2418.7	2439.9	2492.8	2503.3	2499.8	2513.9	2549.2	2528.0	2478.7
152.5°	2256.5	2316.5	2362.3	2394.0	2432.8	2457.5	2461.0	2461.0	2492.8	2492.8	2464.6
155°	2242.4	2274.2	2316.5	2348.2	2390.5	2415.2	2418.7	2418.7	2450.5	2439.9	2432.8
157.5°	2210.7	2253.0	2288.3	2298.8	2351.7	2372.9	2372.9	2379.9	2408.1	2415.2	2390.5
160°	2189.5	2210.7	2253.0	2284.7	2312.9	2337.6	2341.2	2348.2	2365.8	2362.3	2351.7
162.5°	2157.8	2189.5	2228.3	2246.0	2277.7	2302.4	2298.8	2298.8	2330.6	2337.6	2323.5
165°	2140.2	2175.4	2221.3	2231.9	2253.0	2267.1	2263.6	2274.2	2302.4	2295.3	2288.3
167.5°	2147.2	2164.9	2203.6	2200.1	2224.8	2235.4	2235.4	2228.3	2246.0	2221.3	2242.4
170°	2157.8	2157.8	2179.0	2186.0	2207.2	2217.8	2207.2	2207.2	2217.8	2224.8	2228.3
172.5°	2161.3	2157.8	2175.4	2171.9	2179.0	2196.6	2186.0	2171.9	2193.1	2207.2	2189.5
175°	2150.8	2154.3	2182.5	2175.4	2164.9	2182.5	2164.9	2161.3	2193.1	2189.5	2182.5
177.5°	2140.2	2140.2	2157.8	2143.7	2168.4	2168.4	2150.8	2150.8	2186.0	2161.3	2154.3
180°	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9



TEST NUMBER: P508428

CATALOG NUMBER: ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

	95°	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	35.3	38.8	42.3	49.4	52.9	56.4	63.5	70.5	81.1	81.1	95.2
95°	112.8	116.4	116.4	123.4	126.9	126.9	130.5	144.6	158.7	176.3	208.0
97.5°	239.8	211.6	204.5	204.5	208.0	208.0	211.6	218.6	229.2	250.3	282.1
100°	423.1	359.6	313.8	289.1	282.1	278.5	282.1	282.1	299.7	327.9	363.2
102.5°	553.6	468.9	391.4	356.1	342.0	345.5	342.0	349.1	373.7	398.4	437.2
105°	698.1	588.8	490.1	437.2	416.0	412.5	412.5	419.6	447.8	479.5	507.7
107.5°	895.6	758.1	613.5	535.9	504.2	497.1	497.1	507.7	525.3	546.5	578.2
110°	1212.9	987.2	786.3	662.9	620.5	595.9	581.8	592.3	602.9	620.5	645.2
112.5°	1509.1	1230.5	966.1	779.2	722.8	684.0	662.9	662.9	677.0	691.1	708.7
115°	1713.6	1403.3	1117.7	899.1	818.0	782.7	736.9	740.4	751.0	765.1	775.7
117.5°	1896.9	1565.5	1244.6	1011.9	920.2	863.8	818.0	807.4	828.6	846.2	853.3
120°	2027.4	1706.5	1371.6	1128.3	1022.5	959.0	895.6	885.0	906.1	909.7	944.9
122.5°	2136.7	1808.8	1480.9	1230.5	1117.7	1064.8	987.2	973.1	987.2	1011.9	1040.1
125°	2207.2	1900.4	1579.6	1325.7	1219.9	1149.4	1068.3	1057.8	1068.3	1086.0	1117.7
127.5°	2263.6	1974.5	1674.8	1424.4	1301.0	1244.6	1163.5	1142.4	1156.5	1163.5	1198.8
130°	2305.9	2059.1	1762.9	1519.6	1410.3	1353.9	1244.6	1223.5	1230.5	1248.1	1265.8
132.5°	2348.2	2112.0	1851.1	1618.4	1512.6	1449.1	1343.3	1297.5	1301.0	1315.1	1332.8
135°	2376.4	2168.4	1942.7	1717.1	1600.7	1551.4	1438.5	1392.7	1375.1	1371.6	1392.7
137.5°	2404.6	2221.3	2013.3	1808.8	1710.0	1653.6	1519.6	1466.7	1449.1	1445.6	1452.6
140°	2429.3	2267.1	2076.7	1907.5	1808.8	1741.8	1618.4	1551.4	1523.2	1509.1	1516.1
142.5°	2439.9	2305.9	2143.7	2013.3	1893.4	1815.8	1713.6	1646.6	1586.6	1569.0	1554.9
145°	2446.9	2365.8	2207.2	2080.2	1988.6	1942.7	1819.3	1731.2	1660.7	1625.4	1618.4
147.5°	2446.9	2362.3	2249.5	2136.7	2059.1	2009.7	1875.7	1819.3	1762.9	1703.0	1674.8
150°	2439.9	2401.1	2281.2	2193.1	2112.0	2073.2	1978.0	1872.2	1812.3	1770.0	1738.2
152.5°	2422.3	2369.4	2298.8	2221.3	2161.3	2136.7	2027.4	1960.4	1896.9	1833.4	1808.8
155°	2404.6	2362.3	2309.4	2246.0	2196.6	2164.9	2087.3	2020.3	1974.5	1907.5	1882.8
157.5°	2383.5	2355.3	2309.4	2274.2	2217.8	2196.6	2119.0	2073.2	2034.4	1967.4	1935.7
160°	2351.7	2334.1	2305.9	2256.5	2231.9	2214.2	2150.8	2115.5	2076.7	2027.4	2002.7
162.5°	2320.0	2323.5	2288.3	2277.7	2238.9	2224.8	2182.5	2143.7	2104.9	2076.7	2055.6
165°	2295.3	2309.4	2274.2	2238.9	2238.9	2231.9	2186.0	2168.4	2150.8	2119.0	2094.3
167.5°	2249.5	2267.1	2267.1	2224.8	2221.3	2231.9	2203.6	2186.0	2171.9	2147.2	2133.1
170°	2242.4	2242.4	2217.8	2221.3	2231.9	2207.2	2189.5	2186.0	2186.0	2171.9	2161.3
172.5°	2200.1	2221.3	2210.7	2203.6	2193.1	2193.1	2182.5	2186.0	2179.0	2182.5	2179.0
175°	2186.0	2189.5	2193.1	2189.5	2179.0	2179.0	2175.4	2179.0	2182.5	2182.5	2175.4
177.5°	2164.9	2175.4	2193.1	2175.4	2182.5	2168.4	2164.9	2171.9	2171.9	2175.4	2168.4
180°	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9



TEST NUMBER: P508428

CATALOG NUMBER: ASYX-X-S2-X-U-F-L30-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

	145°	150°	155°	157.5°	160°	165°	170°	175°	180°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	105.8	112.8	116.4	119.9	123.4	112.8	112.8	102.2	95.2
95°	225.7	243.3	243.3	243.3	253.9	260.9	257.4	253.9	253.9
97.5°	306.7	335.0	356.1	359.6	359.6	359.6	363.2	363.2	356.1
100°	387.8	401.9	416.0	419.6	416.0	416.0	412.5	419.6	416.0
102.5°	465.4	479.5	483.0	486.6	483.0	479.5	472.5	479.5	465.4
105°	532.4	546.5	543.0	539.5	535.9	528.9	521.8	532.4	528.9
107.5°	606.4	610.0	613.5	617.0	602.9	599.4	599.4	606.4	602.9
110°	666.4	680.5	677.0	673.4	673.4	666.4	662.9	666.4	662.9
112.5°	729.8	736.9	733.4	733.4	729.8	719.3	708.7	712.2	708.7
115°	796.8	800.4	796.8	789.8	782.7	775.7	761.6	754.5	751.0
117.5°	867.4	863.8	856.8	853.3	846.2	842.7	821.5	810.9	807.4
120°	948.5	937.9	923.8	920.2	909.7	906.1	877.9	860.3	856.8
122.5°	1047.2	1029.5	1001.3	987.2	983.7	973.1	937.9	930.8	920.2
125°	1131.8	1124.7	1107.1	1096.5	1082.4	1050.7	1011.9	994.3	1001.3
127.5°	1212.9	1209.4	1202.3	1188.2	1170.6	1156.5	1124.7	1096.5	1089.5
130°	1279.9	1283.4	1272.8	1262.2	1251.7	1237.6	1202.3	1184.7	1184.7
132.5°	1343.3	1346.9	1353.9	1325.7	1318.7	1304.6	1272.8	1251.7	1258.7
135°	1392.7	1399.8	1389.2	1378.6	1371.6	1357.4	1325.7	1315.1	1318.7
137.5°	1459.7	1452.6	1442.1	1435.0	1417.4	1413.9	1389.2	1371.6	1364.5
140°	1502.0	1505.5	1505.5	1487.9	1470.3	1463.2	1438.5	1420.9	1424.4
142.5°	1558.4	1544.3	1551.4	1533.7	1523.2	1512.6	1480.9	1477.3	1477.3
145°	1600.7	1593.7	1590.2	1576.0	1572.5	1551.4	1540.8	1523.2	1533.7
147.5°	1646.6	1646.6	1646.6	1614.8	1607.8	1597.2	1586.6	1572.5	1583.1
150°	1713.6	1688.9	1681.8	1664.2	1650.1	1643.0	1618.4	1611.3	1621.9
152.5°	1766.4	1738.2	1717.1	1706.5	1703.0	1692.4	1678.3	1667.7	1667.7
155°	1829.9	1791.1	1791.1	1752.3	1741.8	1734.7	1720.6	1717.1	1720.6
157.5°	1896.9	1861.6	1844.0	1822.9	1805.2	1798.2	1780.5	1773.5	1780.5
160°	1946.3	1942.7	1904.0	1893.4	1875.7	1865.2	1861.6	1844.0	1844.0
162.5°	2023.8	1974.5	1967.4	1956.8	1942.7	1928.6	1921.6	1914.5	1921.6
165°	2066.1	2052.0	2034.4	2020.3	2009.7	2006.2	1985.0	1992.1	1988.6
167.5°	2115.5	2104.9	2087.3	2076.7	2080.2	2066.1	2066.1	2048.5	2052.0
170°	2150.8	2157.8	2136.7	2126.1	2119.0	2119.0	2104.9	2104.9	2112.0
172.5°	2175.4	2186.0	2168.4	2161.3	2154.3	2161.3	2147.2	2143.7	2150.8
175°	2182.5	2196.6	2182.5	2179.0	2171.9	2193.1	2168.4	2168.4	2154.3
177.5°	2175.4	2179.0	2193.1	2171.9	2171.9	2179.0	2182.5	2154.3	2171.9
180°	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9

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